

RICHARD B. OGILVIE  
GOVERNOR

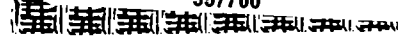


November 30, 1971

EPA Region 5 Records Ctr.



357700



WILLIAM L. BLASER  
DIRECTOR

MADISON COUNTY - Land Pollution Control - Illinois

Wood River, Illinois  
Environmental Protection Agency  
Laclede Steel Company (Proposed)

**RECEIVED**  
Environmental Protection Agency

**DEC 06 1971**

115A W. MAIN ST.  
COLLINSVILLE, ILL.

Laclede Steel Company  
P. O. Box 576  
Alton, Illinois 62002

ATTENTION: J. Y. Nash, Project Engineer

Gentlemen:

This is regarding the subject proposed solid waste disposal site, and the hydrogeologic suitability of same for solid waste disposal. We regret the delay in this matter.

This office has recently received a preliminary evaluation of the property in question from the Illinois State Geological Survey (copy enclosed). You will note that sufficient data is not available to definitively judge the suitability of the site for refuse disposal; soil borings and prudent design specifications will be critical towards final determination of this suitability. We suggest therefore, that you proceed with providing the necessary application for permit information.

It is also noted that at this time, with the information available to date, the slag material to be deposited at the site likely would require daily, and final cover. This judgment is based on the current uncertainty as to the specific subsurface conditions at the site as well as on the probability of leachate generation, particularly by iron, from uncovered slag material. Additional data could serve, however, to alter this opinion.

If you have any additional questions in this matter, please feel free to contact this office.

Very truly yours,

ENVIRONMENTAL PROTECTION AGENCY

W. F. Althoff, Environmental Engineer  
Division of Land Pollution Control

WEA:cp

Enclosure

cc: Region IV

In the New Illinois, we accommodate!

MADISON CO

W. RIVERTWNSP/LACLED ST.



# ILLINOIS STATE GEOLOGICAL SURVEY

NATURAL RESOURCES BUILDING, URBANA, ILLINOIS 61801

TELEPHONE 217 344-1481

JOHN C. FRYE, CHIEF

November 18, 1971

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NOV 22 1971

Mr. William F. Althoff  
Environmental Engineer  
Environmental Protection Agency  
2200 Churchill Road  
Springfield, IL 62706

Dear Mr. Althoff:

This is in response to your request for hydrogeologic data relevant to a proposed solid waste disposal site in Madison County. The site, located in the SW $\frac{1}{4}$  of Section 17, T. 5 N., R. 9 W., will be used for the disposal of slag from electric furnace operations at the Laclede Steel Company.

The property lies on a portion of the Mississippi River flood plain known as the American Bottoms. Driller's logs for wells in the S $\frac{1}{2}$  of Section 18, T. 5 N., R. 9 W., report bedrock at depths varying from approximately 110 to 130 feet. The general geologic sequence consists of 10 to 30 feet of clayey material overlying sand and gravel. Some driller's logs for wells in Section 16 report fine sand or very fine sand at the land surface. Others record 20 or 30 feet of clayey material overlying sand. Heavy industrial pumpage of ground water in the area has probably disturbed the natural ground-water flow system.

The pollution potential at this site will depend upon the thickness of clayey material at the disposal point and the solubility of the waste material.

Very truly yours,

*Frank B. Sherman, Jr.*

Frank B. Sherman, Jr.  
Assistant Geologist  
Section of Ground-Water Geology  
and Geophysical Exploration

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